



DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2023-1038; Project Identifier MCAI-2022-01584-T]

RIN 2120-AA64

Airworthiness Directives; Airbus SAS Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: The FAA proposes to supersede Airworthiness Directive (AD) 2022-17-09, which applies to certain Airbus SAS Model A350-941 and -1041 airplanes. AD 2022-17-09 continues to require the actions of AD 2021-16-03 and requires a modification to restore two independent layers of lightning strike protection. Since the FAA issued AD 2022-17-09, a determination was made that additional airplanes need to perform a modification to restore the two independent layers of lightning strike protection on the wing lower or upper cover. This proposed AD would continue to require the actions in AD 2022-17-09 and would require restoring the two independent layers of lightning strike protection, as specified in a European Union Aviation Safety Agency (EASA) AD, which is proposed for incorporation by reference (IBR). The FAA is proposing this AD to address the unsafe condition on these products.

DATES: The FAA must receive comments on this proposed AD by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- Federal eRulemaking Portal: Go to [regulations.gov](https://www.regulations.gov). Follow the instructions for submitting comments.

- Fax: 202-493-2251.

- Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

- Hand Delivery: Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

AD Docket: You may examine the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2023-1038; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this NPRM, the mandatory continuing airworthiness information (MCAI), any comments received, and other information. The street address for Docket Operations is listed above.

Material Incorporated by Reference:

- For the EASA AD identified in this NPRM, you may contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 8999 000; email ADs@easa.europa.eu; website easa.europa.eu. You may find this material on the EASA website at ad.easa.europa.eu. It is also available at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2023-1038.

- You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

FOR FURTHER INFORMATION CONTACT: Dat Le, Aerospace Engineer, Large Aircraft Section, FAA, International Validation Branch, 2200 South 216th St., Des Moines, WA 98198; telephone 516-228-7317; email dat.v.le@faa.gov.

SUPPLEMENTARY INFORMATION:

Comments Invited

The FAA invites you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under ADDRESSES. Include “Docket No. FAA-2023-1038; Project Identifier MCAI-2022-01584-T” at the beginning of your comments. The most helpful comments reference a specific portion of the proposal, explain the reason for any recommended change, and include supporting data. The FAA will consider all comments received by the closing date and may amend this proposal because of those comments.

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments received, without change, to regulations.gov, including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this NPRM.

Confidential Business Information

CBI is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this NPRM contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to this NPRM, it is important that you clearly designate the submitted comments as CBI. Please mark each page of your submission containing CBI as “PROPIN.” The FAA will treat such marked submissions as confidential under the FOIA, and they will not be placed in the public docket of this NPRM. Submissions containing CBI should be sent to Dat Le, Aerospace Engineer, Large Aircraft Section, FAA, International Validation Branch, 2200 South 216th St., Des Moines, WA 98198; telephone 516-228-7317; email dat.v.le@faa.gov.

Any commentary that the FAA receives which is not specifically designated as CBI will be placed in the public docket for this rulemaking.

Background

The FAA issued AD 2022-17-09, Amendment 39-22147 (87 FR 64375, October 25, 2022) (AD 2022-17-09), for certain Airbus SAS Model A350-941 and -1041 airplanes. AD 2022-17-09 was prompted by an MCAI originated by EASA, which is the Technical Agent for the Member States of the European Union. EASA issued AD 2022-0011, dated 21 January 2022, to correct an unsafe condition.

AD 2022-17-09 continues to require the actions of AD 2021-16-03, Amendment 39-21665 (86 FR 47555, August 26, 2021) (an inspection for missing or incorrect application of the lightning strike edge glow sealant protection at certain locations in the wing tanks, and corrective action) and requires a modification to restore two independent layers of lightning strike protection. The FAA issued AD 2022-17-09 to address missing or incorrectly applied sealant, which in combination with an undetected incorrect installation of an adjacent fastener and a lightning strike in the immediate area, could result in ignition of the fuel-air mixture inside the affected fuel tanks and loss of the airplane.

Actions Since AD 2022-17-09 Was Issued

Since the FAA issued AD 2022-17-09, EASA superseded AD 2022-0011, dated 21 January 2022, and issued AD 2022-0250, dated December 14, 2022, (EASA AD 2022-0250) (also referred to as the MCAI), to correct an unsafe condition for certain Airbus SAS Model A350-941 and -1041 airplanes. The MCAI states that occurrences have been reported from the A350 production line of missing or incorrect application of the lightning strike edge glow sealant protection at specific locations on the wing tanks. This sealant provides the second layer of protection to prevent stringer edge glow in case of lightning strike. This condition, if not addressed, combined with a pre-existing

undetected incorrect installation of an adjacent fastener, could create an ignition source for the fuel vapor inside the tanks, which, in case of a lightning strike of high intensity in the immediate area, could result in ignition of the fuel-air mixture in the affected fuel tank and consequent loss of the airplane.

The FAA is proposing this AD to address the unsafe condition on these products. You may examine the MCAI in the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2023-1038.

Explanation of Retained Requirements

Although this proposed AD does not explicitly restate the requirements of AD 2022-17-09, this proposed AD would retain all of the requirements of AD 2022-17-09. Those requirements are referenced in EASA AD 2022-0250, which, in turn, is referenced in paragraph (g) of this proposed AD.

Related Service Information under 1 CFR Part 51

EASA AD 2022-0250 specifies procedures for an inspection for missing or incorrect application of the lightning strike edge glow sealant protection at certain locations in the wing tanks (discrepancies), and corrective action. Corrective actions include applying sealant in areas where sealant was found to be missing or incorrectly applied. EASA AD 2022-0250 also specifies procedures for a modification to restore two independent layers of lightning strike protection on the wing lower or upper cover. This material is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section.

FAA's Determination

This product has been approved by the aviation authority of another country and is approved for operation in the United States. Pursuant to the FAA's bilateral agreement with the State of Design Authority, it has notified the FAA of the unsafe condition described in the MCAI referenced above. The FAA is issuing this NPRM after

determining that the unsafe condition described previously is likely to exist or develop in other products of the same type design.

Proposed AD Requirements in this NPRM

This proposed AD would retain all requirements of AD 2022-17-09. This proposed AD would require accomplishing the actions specified in EASA AD 2022-0250 described previously, except for any differences identified as exceptions in the regulatory text of this proposed AD.

Explanation of Required Compliance Information

In the FAA's ongoing efforts to improve the efficiency of the AD process, the FAA developed a process to use some civil aviation authority (CAA) ADs as the primary source of information for compliance with requirements for corresponding FAA ADs. The FAA has been coordinating this process with manufacturers and CAAs. As a result, the FAA proposes to incorporate EASA AD 2022-0250 by reference in the FAA final rule. This proposed AD would, therefore, require compliance with EASA AD 2022-0250 in its entirety through that incorporation, except for any differences identified as exceptions in the regulatory text of this proposed AD. Using common terms that are the same as the heading of a particular section in EASA AD 2022-0250 does not mean that operators need comply only with that section. For example, where the AD requirement refers to "all required actions and compliance times," compliance with this AD requirement is not limited to the section titled "Required Action(s) and Compliance Time(s)" in EASA AD 2022-0250. Service information required by EASA AD 2022-0250 for compliance will be available at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2023-1038 after the FAA final rule is published.

Costs of Compliance

The FAA estimates that this AD, if adopted as proposed, would affect 31 airplanes of U.S. registry. The FAA estimates the following costs to comply with this proposed AD:

Estimated costs for required actions

Action	Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Retained actions from AD 2022-17-09	Up to 122 work-hours X \$85 per hour = \$10,370	Up to \$500	Up to \$10,870	Up to \$336,970
New proposed actions (modification)	Up to 103 work-hours X \$85 per hour = \$8,775	\$500	Up to \$9,255	Up to \$286,905

The FAA estimates the following costs to do any necessary on-condition action that would be required based on the results of any required actions. The FAA has no way of determining the number of aircraft that might need this on-condition action:

Estimated costs of on-condition actions

Labor cost	Parts cost	Cost per product
1 work-hour X \$85 per hour = \$85	\$0	\$85

According to the manufacturer, some or all of the costs of this proposed AD may be covered under warranty, thereby reducing the cost impact on affected individuals. The FAA does not control warranty coverage for affected individuals. As a result, the FAA has included all known costs in the cost estimate.

Authority for this Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency's authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

The FAA determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify this proposed regulation:

- (1) Is not a “significant regulatory action” under Executive Order 12866,
- (2) Would not affect intrastate aviation in Alaska, and
- (3) Would not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

PART 39 - AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. The FAA amends § 39.13 by:

a. Removing Airworthiness Directive (AD) AD 2022-17-09, Amendment 39-22147 (87 FR 64375, October 25, 2022); and

b. Adding the following new AD:

Airbus SAS: Docket No. FAA-2023-1038; Project Identifier MCAI-2022-01584-T.

(a) Comments Due Date

The FAA must receive comments on this airworthiness directive (AD) by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

(b) Affected ADs

This AD replaces AD 2022-17-09, Amendment 39-22147 (87 FR 64375, October 25, 2022) (AD 2022-17-09).

(c) Applicability

This AD applies to Airbus SAS Model A350-941 and -1041 airplanes, certificated in any category, as identified in European Union Aviation Safety Agency (EASA) AD 2022-0250, dated December 14, 2022 (EASA AD 2022-0250).

(d) Subject

Air Transport Association (ATA) of America Code 57, Wings.

(e) Unsafe Condition

This AD was prompted by reports of the incorrect application of lightning strike edge glow sealant protection at specific locations on the wing tanks, and a determination that additional airplanes need to perform a modification to restore two independent layers of lightning strike protection on the wing lower or upper cover. The FAA is issuing this AD to address missing or incorrectly applied sealant, which in combination with an undetected incorrect installation of an adjacent fastener and a lightning strike in the

immediate area, could result in ignition of the fuel-air mixture inside the affected fuel tanks and loss of the airplane.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Requirements

Except as specified in paragraph (h) of this AD: Comply with all required actions and compliance times specified in, and in accordance with, EASA AD 2022-0250.

(h) Exceptions to EASA AD 2022-0250

(1) Where EASA AD 2022-0250 refers to October 27, 2020 (the effective date of EASA AD 2020-0220), this AD requires using September 30, 2021 (the effective date of AD 2021-16-03, Amendment 39-21665 (86 FR 47555, August 26, 2021)).

(2) Where EASA AD 2022-0250 refers to February 4, 2022 (the effective date of EASA AD 2022-0011), this AD requires using November 29, 2022 (the effective date of AD 2022-17-09).

(3) Where EASA AD 2022-0250 refers to its effective date, this AD requires using the effective date of this AD.

(4) Where paragraph (1) of EASA AD 2022-0250 gives a compliance time of “the next scheduled maintenance tank entry, or before exceeding 78 months since Airbus date of manufacture, whichever occurs first after 27 October 2020 [the effective date of EASA AD 2020-0220],” for this AD, the compliance time is the later of the times specified in paragraphs (h)(4)(i) and (ii) of this AD.

(i) The next scheduled maintenance tank entry, or before exceeding 78 months since Airbus date of manufacture, whichever occurs first after September 30, 2021 (the effective date of AD 2021-16-03).

(ii) Within 12 months after September 30, 2021 (the effective date of AD 2021-16-03).

(5) Where paragraph (3) of EASA AD 2022-0250 gives a compliance time of “the next scheduled maintenance tank entry, or before exceeding 78 months since Airbus date of manufacture, whichever occurs first after 04 February 2022 [the effective date of EASA AD 2022-0011],” for this AD, the compliance time is the later of the times specified in paragraphs (h)(5)(i) and (ii) of this AD.

(i) The next scheduled maintenance tank entry, or before exceeding 78 months since Airbus date of manufacture, whichever occurs first after November 29, 2022 (the effective date of AD 2022-17-09).

(ii) Within 12 months after November 29, 2022 (the effective date of AD 2022-17-09).

(6) Where paragraph (3) of EASA AD 2022-0250 refers to “discrepancies,” for this AD, discrepancies include missing or incorrectly applied sealant.

(7) Where paragraph (4) of EASA AD 2022-0250 gives a compliance time of “the next scheduled maintenance tank entry, or before exceeding 78 months since Airbus date of manufacture, whichever occurs first after the effective date of this [EASA] AD,” for this AD, the compliance time is the later of the times specified in paragraphs (h)(7)(i) and (ii) of this AD.

(i) The next scheduled maintenance tank entry, or before exceeding 78 months since Airbus date of manufacture, whichever occurs first after the effective date of this AD.

(ii) Within 2 months after the effective date of this AD.

(8) Where the applicability and group definitions in EASA AD 2022-0250 specify manufacturer serial numbers (MSN) in certain service information, replace the text “the inspection SB” with “Airbus Service Bulletin A350-57-P067, dated September 17, 2020.”

(9) Where the applicability and group definitions in EASA AD 2022-0250 specify manufacturer serial numbers (MSN) in certain service information, replace the text “the modification SB1” with “Airbus Service Bulletin A350-57-P070, Revision 1, dated March 14, 2022.”

(10) Where the applicability and group definitions in EASA AD 2022-0250 specify manufacturer serial numbers (MSN) in certain service information, replace the text “the modification SB2” with “Airbus Service Bulletin A350-57-P072, dated June 24, 2022; Airbus Service Bulletin A350-57-P073, dated June 24, 2022; or Airbus Service Bulletin A350-57-P074, dated June 24, 2022; as applicable.”

(11) This AD does not adopt the “Remarks” section of EASA AD 2022-0250.

(i) Additional AD Provisions

The following provisions also apply to this AD:

(1) *Alternative Methods of Compliance (AMOCs)*: The Manager, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or responsible Flight Standards Office, as appropriate. If sending information directly to the International Validation Branch, send it to the attention of the person identified in paragraph (j) of this AD. Information may be emailed to: 9-AVS-AIR-730-AMOC@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the responsible Flight Standards Office.

(2) *Contacting the Manufacturer*: For any requirement in this AD to obtain instructions from a manufacturer, the instructions must be accomplished using a method approved by the Manager, International Validation Branch, FAA; or EASA; or Airbus SAS’s EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(3) *Required for Compliance (RC)*: Except as required by paragraph (i)(2) of this AD, if any service information contains procedures or tests that are identified as RC, those procedures and tests must be done to comply with this AD; any procedures or tests that are not identified as RC are recommended. Those procedures and tests that are not identified as RC may be deviated from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC, provided the procedures and tests identified as RC can be done and the airplane can be put back in an airworthy condition. Any substitutions or changes to procedures or tests identified as RC require approval of an AMOC.

(j) Additional Information

For more information about this AD, contact Dat Le, Aerospace Engineer, Large Aircraft Section, FAA, International Validation Branch, 2200 South 216th St., Des Moines, WA 98198; telephone 516-228-7317; email dat.v.le@faa.gov.

(k) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless this AD specifies otherwise.

(i) European Union Aviation Safety Agency (EASA) AD 2022-0250, dated December 14, 2022.

(ii) [Reserved]

(3) For EASA AD 2022-0250, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 8999 000; email ADs@easa.europa.eu; website easa.europa.eu. You may find this EASA AD on the EASA website at ad.easa.europa.eu.

(4) You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, email fr.inspection@nara.gov, or go to: www.archives.gov/federal-register/cfr/ibr-locations.html.

Issued on May 8, 2023.

Michael Linegang, Acting Director,
Compliance & Airworthiness Division,
Aircraft Certification Service.

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